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L Number	Hits	Search Text	DB	Time stamp
9	0	347/62 and piezo and (vibrat\$4 and (detect\$4 or sens\$4) with ink\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 14:43
10	14	347/62 and piezo and vibrat\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 14:42
11	131	347/54 and piezo and vibrat\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 14:43
12	6	347/54 and piezo and vibrat\$4 and ((detect\$4 or sens\$4) with ink\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 14:44
13	33	347/19 and piezo and vibrat\$4 and ((detect\$4 or sens\$4) with ink\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 14:44
14	32	(347/19 and piezo and vibrat\$4 and ((detect\$4 or sens\$4) with ink\$2)) not (347/54 and piezo and vibrat\$4 and ((detect\$4 or sens\$4) with ink\$2))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 14:44
-	0	"07137291"	JPO; DERWENT	2003/05/19 08:44
-	1	"56039413"	JPO; DERWENT	2002/10/01 14:02
-	1	"05318757"	JPO; DERWENT	2002/10/01 14:03
-	2	"10305590"	JPO; DERWENT	2002/10/01 14:04
-	0	"07137291"	USPAT; US-PGPUB; JPO; DERWENT	2002/10/01 14:02
-	1	"56039413"	USPAT; JPO; DERWENT	2002/10/01 14:02
-	2	"05318757"	USPAT; JPO; DERWENT	2002/10/01 14:03
-	2	"10323997"	JPO; DERWENT	2002/10/01 14:04
-	1	"04234670"	JPO; DERWENT	2002/10/01 14:04
-	2	"11277760"	JPO; DERWENT	2002/10/01 14:07
-	2	"11010909"	JPO; DERWENT	2002/10/01 14:07
-	1	("6347853").PN.	USPAT; US-PGPUB	2002/10/01 14:07
-	352	347/7.ccls.	USPAT; US-PGPUB	2002/10/01 17:00
-	293	347/7.ccls. and detect\$4	USPAT; US-PGPUB	2002/10/03 10:44
-	288	347/7.ccls. and detect\$4 and ink\$2	USPAT; US-PGPUB	2002/10/03 10:48
-	179	347/7.ccls. and detect\$4 and ink\$2 and carriage\$2	USPAT; US-PGPUB	2002/10/01 17:01
-	32	347/7.ccls. and detect\$4 and ink\$2 and carriage\$2 and vibrat\$4	USPAT; US-PGPUB	2002/10/01 15:45
-	56	347/7.ccls. and detect\$4 and ink\$2 and carriage\$2 and piezo\$10	USPAT; US-PGPUB	2002/10/01 15:51

-	20	(347/7.ccls. and detect\$4 and ink\$2 and carriage\$2 and vibrat\$4) not (347/7.ccls. and detect\$4 and ink\$2 and carriage\$2 and piezo\$10)	USPAT; US-PGPUB	2002/10/01 15:45
-	793	347/19.ccls.	USPAT; US-PGPUB	2002/10/01 15:50
-	649	347/19.ccls. and detect\$4	USPAT; US-PGPUB	2002/10/01 15:51
-	636	347/19.ccls. and detect\$4 and ink\$2	USPAT; US-PGPUB	2002/10/01 15:51
-	163	347/19.ccls. and detect\$4 and ink\$2 and carriage\$2 and piezo\$10	USPAT; US-PGPUB	2002/10/01 15:52
-	43	347/19.ccls. and detect\$4 and ink\$2 and carriage\$2 and piezo\$10 and vibrat\$4	USPAT; US-PGPUB	2002/10/01 15:52
-	40	(347/19.ccls. and detect\$4 and ink\$2 and carriage\$2 and piezo\$10 and vibrat\$4) not (347/7.ccls. and detect\$4 and ink\$2 and carriage\$2 and piezo\$10)	USPAT; US-PGPUB	2002/10/01 15:52
-	40	((347/19.ccls. and detect\$4 and ink\$2 and carriage\$2 and piezo\$10 and vibrat\$4) not (347/7.ccls. and detect\$4 and ink\$2 and carriage\$2 and piezo\$10)) not ((347/7.ccls. and detect\$4 and ink\$2 and carriage\$2 and vibrat\$4) not (347/7.ccls. and detect\$4 and ink\$2 and carriage\$2 and piezo\$10))	USPAT; US-PGPUB	2002/10/01 16:43
-	232	347/5.ccls.	USPAT; US-PGPUB	2002/10/02 17:22
-	152	347/5.ccls. and detect\$4	USPAT; US-PGPUB	2002/10/01 17:00
-	145	347/5.ccls. and detect\$4 and ink\$2	USPAT; US-PGPUB	2002/10/01 17:01
-	94	347/5.ccls. and detect\$4 and ink\$2 and carriage\$2	USPAT; US-PGPUB	2002/10/01 17:01
-	21	347/5.ccls. and detect\$4 and ink\$2 and carriage\$2 and piezo\$10	USPAT; US-PGPUB	2002/10/01 17:01
-	0	347/7.ccls. and detect\$4 and ((turn\$4 or switch\$4) adj on)	USPAT; US-PGPUB	2002/10/02 14:48
-	0	347/5.ccls. and detect\$4 and ((turn\$4 or switch\$4) adj on)	USPAT; US-PGPUB	2002/10/02 14:47
-	204	347/7.ccls. and detect\$4 and (power near\$2 on)	USPAT; US-PGPUB	2002/10/02 14:48
-	655	347/5,7,19.ccls. and ink\$4 and detect\$4 and carriage\$2	USPAT; US-PGPUB	2002/10/02 17:23
-	30	347/5,7,19.ccls. and ink\$4 and detect\$4 and carriage\$2 and shock\$2	USPAT; US-PGPUB	2002/10/02 18:07
-	1	("5132711").PN.	USPAT; US-PGPUB	2002/10/02 18:08
-	9	((("5132711") or ("6347853") or ("6416152") or ("6254212") or ("6334658") or ("4677448") or ("4977413") or ("4196625") or ("4604633")).PN.	USPAT; US-PGPUB	2002/10/03 09:34
-	9	(US-5132711-\$ or US-6254212-\$ or US-6334658-\$ or US-6347853-\$ or US-6416152-\$ or US-4196625-\$ or US-4604633-\$ or US-4677448-\$ or US-4977413-\$).did.	USPAT	2002/10/03 14:13
-	4	((US-5132711-\$ or US-6254212-\$ or US-6334658-\$ or US-6347853-\$ or US-6416152-\$ or US-4196625-\$ or US-4604633-\$ or US-4677448-\$ or US-4977413-\$).did.) and frequenc\$4	USPAT; US-PGPUB	2002/10/03 09:49
-	72	347/5,7,19.ccls. and detect\$4 and (measur\$4 adj tim\$4)	USPAT; US-PGPUB	2002/10/03 12:24
-	39	347/5,7,19.ccls. and detect\$4 and (measur\$4 adj tim\$4) and frequenc\$4	USPAT; US-PGPUB	2002/10/03 09:53
-	1	347/7.ccls. and 399/\$.ccls.	JPO; DERWENT	2002/10/03 10:38
-	16	347/7.ccls. and 399/\$.ccls.	USPAT; US-PGPUB	2002/10/03 10:44

-	447	347/37.ccls.	USPAT; US-PGPUB	2002/10/03 10:44
-	272	347/37.ccls. and detect\$4	USPAT; US-PGPUB	2002/10/03 10:44
-	266	347/37.ccls. and detect\$4 and ink\$2	USPAT; US-PGPUB	2002/10/03 10:45
-	230	347/37.ccls. and detect\$4 and ink\$2 and carriage\$2	USPAT; US-PGPUB	2002/10/03 11:10
-	24	347/37.ccls. and detect\$4 and ink\$2 and carriage\$2 and shock\$4	USPAT; US-PGPUB	2002/10/03 10:47
-	15	347/7.ccls. and detect\$4 and ink\$2 and fuse\$2	USPAT; US-PGPUB	2002/10/03 11:10
-	807	73/290V	USPAT; US-PGPUB	2002/10/03 11:10
-	0	73/290V.ccls. and detect\$4 and ink\$2 and carriage\$2	USPAT; US-PGPUB	2002/10/03 11:10
-	369	73/290V.ccls. and detect\$4	USPAT; US-PGPUB	2002/10/03 11:11
-	6	73/290V.ccls. and detect\$4 and ink\$2	USPAT; US-PGPUB	2002/10/03 11:23
-	1	("5964156").PN.	USPAT; US-PGPUB	2002/10/03 11:24
-	1	("5694156").PN.	USPAT; US-PGPUB	2002/10/03 11:56
-	0	(US-5132711-\$ or US-6254212-\$ or US-6334658-\$ or US-6347853-\$ or US-6416152-\$ or US-4196625-\$ or US-4604633-\$ or US-4677448-\$ or US-4977413-\$).did. and (periodic adj peak)	USPAT	2002/10/03 12:23
-	0	(US-5132711-\$ or US-6254212-\$ or US-6334658-\$ or US-6347853-\$ or US-6416152-\$ or US-4196625-\$ or US-4604633-\$ or US-4677448-\$ or US-4977413-\$).did. and (periodic)	USPAT	2002/10/03 12:23
-	1	347/5,7,19,37.ccls. and detect\$4 and (periodic adj peak)	USPAT; US-PGPUB	2002/10/03 14:14
-	1	(US-5132711-\$ or US-6254212-\$ or US-6334658-\$ or US-6347853-\$ or US-6416152-\$ or US-4196625-\$ or US-4604633-\$ or US-4677448-\$ or US-4977413-\$).did. and (average\$2 or mean\$2)	USPAT	2002/10/03 14:13
-	311	347/5,7,19,37.ccls. and detect\$4 and average\$2	USPAT; US-PGPUB	2002/10/03 14:15
-	304	347/5,7,19,37.ccls. and detect\$4 and average\$2 and ink\$2	USPAT; US-PGPUB	2002/10/03 14:15
-	310	347/5,7,19,37.ccls. and detect\$4 and average\$2 and (ink\$2 near\$2 (level or consum\$6))	USPAT; US-PGPUB	2002/10/03 14:16
-	229	347/5,7,19,37.ccls. and detect\$4 and average\$2 and (ink\$2 near\$2 (level or consum\$6)) and calculat\$4	USPAT; US-PGPUB	2002/10/03 14:17
-	45	347/5,7,19,37.ccls. and detect\$4 and average\$2 and (ink\$2 adj (level or consum\$6)) and calculat\$4	USPAT; US-PGPUB	2002/10/03 14:19
-	44	(347/5,7,19,37.ccls. and detect\$4 and average\$2 and (ink\$2 adj (level or consum\$6)) and calculat\$4) not ((US-5132711-\$ or US-6254212-\$ or US-6334658-\$ or US-6347853-\$ or US-6416152-\$ or US-4196625-\$ or US-4604633-\$ or US-4677448-\$ or US-4977413-\$).did. and (average\$2 or mean\$2))	USPAT; US-PGPUB	2002/10/03 14:19
-	15	347/19 and ((detect\$4 or sens\$4) with piezo) and cartridge	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/05/16 14:50

-	27	347/19 and ((detect\$4 or sens\$4) with piezo)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:20
-	12	(347/19 and ((detect\$4 or sens\$4) with piezo)) not (347/19 and ((detect\$4 or sens\$4) with piezo) and cartridge)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 14:50
-	0	"07137291"	JPO; DERWENT	2003/05/16 14:53
-	0	"7137291"	JPO; DERWENT	2003/05/16 14:54
-	1	"05286334"	JPO; DERWENT	2003/05/16 14:54
-	0	"07137291"	JPO; DERWENT	2003/05/16 14:54
-	0	"07-137291"	JPO; DERWENT	2003/05/16 14:54
-	0	"70137291"	JPO; DERWENT	2003/05/16 14:55
-	1	"05318757"	JPO; DERWENT	2003/05/16 14:55
-	1800	347/19 and (detect\$4 or sens\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:23
-	40	347/19 and ((detect\$4 or sens\$4) same piezo)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:26
-	13	(347/19 and ((detect\$4 or sens\$4) same piezo)) not (347/19 and ((detect\$4 or sens\$4) with piezo))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:24
-	13	((347/19 and ((detect\$4 or sens\$4) same piezo)) not (347/19 and ((detect\$4 or sens\$4) with piezo))) not (347/19 and ((detect\$4 or sens\$4) with piezo) and cartridge)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:24
-	147	347/19 and ((detect\$4 or sens\$4) and piezo)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:26
-	21	347/7 and ((detect\$4 or sens\$4) same piezo)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:36
-	14	(347/7 and ((detect\$4 or sens\$4) same piezo)) not (347/19 and ((detect\$4 or sens\$4) with piezo) and cartridge)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:30
-	13	((347/7 and ((detect\$4 or sens\$4) same piezo)) not (347/19 and ((detect\$4 or sens\$4) with piezo) and cartridge)) not (347/19 and ((detect\$4 or sens\$4) with piezo))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:30
-	12	((347/7 and ((detect\$4 or sens\$4) same piezo)) not (347/19 and ((detect\$4 or sens\$4) with piezo) and cartridge)) not (347/19 and ((detect\$4 or sens\$4) with piezo))) not (347/19 and ((detect\$4 or sens\$4) same piezo))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:30

-	10	347/5 and ((detect\$4 or sens\$4) same piezo)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:38
-	10	347/37 and ((detect\$4 or sens\$4) same piezo)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:41
-	56	73/290V and ((detect\$4 or sens\$4) same piezo)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:41
-	56	(73/290V and ((detect\$4 or sens\$4) same piezo)) not (347/19 and ((detect\$4 or sens\$4) with piezo) and cartridge)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:41
-	56	((73/290V and ((detect\$4 or sens\$4) same piezo)) not (347/19 and ((detect\$4 or sens\$4) with piezo) and cartridge)) not (347/19 and ((detect\$4 or sens\$4) with piezo))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:41
-	56	((73/290V and ((detect\$4 or sens\$4) same piezo)) not (347/19 and ((detect\$4 or sens\$4) with piezo) and cartridge)) not (347/19 and ((detect\$4 or sens\$4) with piezo)) not (347/19 and ((detect\$4 or sens\$4) same piezo))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:41
-	56	((73/290V and ((detect\$4 or sens\$4) same piezo)) not (347/19 and ((detect\$4 or sens\$4) with piezo) and cartridge)) not (347/19 and ((detect\$4 or sens\$4) with piezo)) not (347/19 and ((detect\$4 or sens\$4) same piezo)) not (347/5 and ((detect\$4 or sens\$4) same piezo))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 15:42
-	77	347/19 and ((sens\$4 or detect\$4) with carriage\$2 with (speed or velocity))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 11:15
-	63	347/\$.ccls. and (carriage\$2 with shock\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 11:16
-	1	347/\$.ccls. and (carriage\$2 with jolt\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 11:15
-	144	347/19 and (cartridge with memory) and ((sens\$4 or detect\$4) with ink\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 10:49
-	47	347/19 and (cartridge with memory) and ((sens\$4 or detect\$4) with ink\$2 with (consumption or level))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 10:32
-	0	347/19 and (cartridge with memory) and ((sens\$4 or detect\$4) with piezo) with ink\$2 with (consumption or level))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 10:33

-	3	347/19 and (cartridge with memory) and (((sens\$4 or detect\$4) with piezo) with ink\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 10:47
-	1	"6416152"	DERWENT	2003/05/19 10:47
-	1	2002-672740.NRAN.	DERWENT	2003/05/19 10:47
-	0	6416152.URPN.	USPAT	2003/05/19 10:48
-	97	(347/19 and (cartridge with memory) and ((sens\$4 or detect\$4) with ink\$2)) not (347/19 and (cartridge with memory) and ((sens\$4 or detect\$4) with ink\$2 with (consumption or level)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 10:58
-	1	("5506611").PN.	USPAT; US-PGPUB	2003/05/19 10:58
-	1157	shock with cartridge	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 11:15
-	107	347/\$.ccls. and (cartridge\$2 with shock\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 11:40
-	90	(347/\$.ccls. and (cartridge\$2 with shock\$2)) not (347/\$.ccls. and (carriage\$2 with shock\$2))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 11:16
-	146	347/\$.ccls. and (vibrat\$4 with ink\$2 with carriage\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 11:46
-	42	347/\$.ccls. and (vibrat\$4 with ink\$2 with carriage\$2 with cartridge\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 11:41
-	32	(347/\$.ccls. and (vibrat\$4 with ink\$2 with carriage\$2 with cartridge\$2)) not (347/\$.ccls. and (carriage\$2 with shock\$2))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 11:42
-	27	((347/\$.ccls. and (vibrat\$4 with ink\$2 with carriage\$2 with cartridge\$2)) not (347/\$.ccls. and (carriage\$2 with shock\$2))) not (347/\$.ccls. and (carriage\$2 with shock\$2))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 11:42
-	129	(347/\$.ccls. and (vibrat\$4 with ink\$2 with carriage\$2)) not (347/\$.ccls. and (carriage\$2 with shock\$2))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 11:47
-	123	((347/\$.ccls. and (vibrat\$4 with ink\$2 with carriage\$2)) not (347/\$.ccls. and (carriage\$2 with shock\$2))) not (347/\$.ccls. and (cartridge\$2 with shock\$2))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 12:22
-	67	347/19 and confirmation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 13:08
-	318	347/19 and (confirm\$6 and ink\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 13:09

-	130	347/19 and (confirm\$6 with ink\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 13:18
-	327	347/19 and cartridge\$2 and count and ink\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 13:18
-	62	347/19 and (cartridge\$2 with count with ink\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 13:32
-	305	347/7 and (ink with cartridge\$2) and count\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 13:35
-	70	347/7 and (ink with cartridge\$2) and count\$4 and confirm\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 13:38
-	1	347/7 and (ink with cartridge\$2 with count\$4 with confirm\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 13:39
-	661	347/7.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 13:39
-	82	347/7.ccls. and canon and light	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 15:07
-	0	347/7.ccls.	USOCR	2003/05/19 15:07
-	394	347/7.ccls.	USPAT; US-PGPUB	2003/05/19 15:07
-	1288516	detect\$4 or sens\$4	USPAT; US-PGPUB	2003/05/19 15:09
-	366	347/7.ccls. and (detect\$4 or sens\$4)	USPAT; US-PGPUB	2003/05/19 15:09
-	81	(347/7.ccls. and (detect\$4 or sens\$4)) and (mean or average)	USPAT; US-PGPUB	2003/05/19 15:09
-	309	347/37 and (carriage with (speed or velocity))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 13:42
-	21	347/37 and (carriage with (speed or velocity) with error\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 13:42
-	207	347/54 and piezo	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 13:43
-	131	347/54 and piezo and vibrat\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 14:24

-	2	347/54 and piezo and vibrat\$4 and (peak with ((electromotive adj force) or EMF or volt\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 13:45
-	6	347/54 and piezo and (vibrat\$4 and (detect\$4 or sens\$4) with ink\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 14:24
-	6	(347/54 and piezo and (vibrat\$4 and (detect\$4 or sens\$4) with ink\$2)) not (347/54 and piezo and vibrat\$4 and (peak with ((electromotive adj force) or EMF or volt\$5)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 13:50